OhioEPA Inter-Office Communication

TO: Lynn Clark; OLPC **DATE:** November 14, 1979

FROM: Chris Khourey; OPWS CK

SUBJECT: Inland - Solon Proposed SLF

Onsite: September 19, 1979 - Chris Khourey and Lynn Clark

LOCATION:

This site is located on adjacent tracts of land in the Village of Glenwillow and the City of Solon.

Latitude - 41° 22' 41" North
Longitude - 81° 28' 47" West

GEOLOGY: Surficial materials at this proposed site are clay till containing sand lenses. These sand lenses were observed during the on-site survey of September 9, 1979, in an excavation on the adjacent Inland Landfill.

Note: The site of the Inland Landfill was previously a "sand and gravel" operation.

The rock-stratigraphic units underlying this site include; (from near-surface to sub-surface) shales of the Cuyahoga Formation, sandstones of the Berea Formation, and shales of the Bedford Formation, all of the Mississippian System. The Cuyahoga Formation outcrops at the eastern end of the Inland SLF. This shale contains many small mud cracks which contribute to the secondary porosity. The Berea Formation is apparently the principal aquifer.

The surface runoff of the proposed SLF and some nearby pland area, presently follows a natural intermittent stream directly through and across the proposed SLF. This stream is a tributary to the Tinkers Creek of the Cuyahoga Basin.

POINTS OF SPECIAL CONCERN

A) Seven water wells are within 1,000 feet of the proposed SLF.

B) The depth to the water table has not been established below the proposed site. Several observation wells would be useful.

C) The bedrock has been observed to be at the surface directly south of and within 400 feet of the proposed site. The top of the bedrock surface should be established within this site.

D) Present regulations place restrictions of 200 feet on each side of a stream. This is not reflected in the revised plans received September 5, 1979. The stream cited is identified by the U.S. Geological Survey in 1963, revised 1970 as an intermittent stream. This indicates that a base flow condition exists during annual periods of high water table.

CK:km